

# Water

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**Table 6.1:** Distribution of Large Dams Completed in Nagaland (as on October, 2014)

Year of Completion				
1991 to 2000	2001 & beyond	Total Dams Completed	Under Construction	Total
1		1		1

**Table 6.2:** Live Storage Capacity of Large Dams/Reservoirs/Projects (as on November, 2015)

Total Live Storage Capacity (BCM)		
Completed	Under Construction	Total
1.220	0.000	1.220

**Table 6.3:** Ultimate Irrigation Potential (UIP)

('000 ha)

Irrigation Potential		2015
Major & Medium		10
Minor	Surface	70
	Ground	5
	Sub-Total	75
Total		85

**Source** (Tables 6.1-6.3): Dam Safety Monitoring Directorate, Water Monitoring Directorate, Central Water Commission, National Registrar of Large Dam, Ministry of Water Resources; Planning & Progress Directorate, Central water Commission, Govt. of India (Water and Related Statistics, 2015).  
<http://www.cwc.gov.in/main/downloads/Water%20&%20Related%20Statistics%202015.pdf>  
 (accessed on 08.05.2016)

**Table 6.4:** Achievements of Bharat Nirman on Irrigation Potential Creation including Minor Irrigation

(in thousand hectare)

Achievement from April 2005 to March 2009	Achievement				Cumulative Achievement
	2010-11	2011-12	2012-13	2013-2014	
12.72	5.24	8.04	0.00	-	30.04

**Table 6.5:** Details of Water user Associations (WUAs) formed and Area Covered (2016)

Number of WUA s Formed	Area Covered (Thousand hectare)
24	3.44

**Source** (Tables 6.4-6.5): Ministry of Water Resources, Govt. of India (Hand Book on Water and Related Information, Central Water Commission January-2016).  
<http://www.cwc.gov.in/main/downloads/Handbook%20on%20Water%20&%20Related%20Information-2016.pdf> (accessed on 10.6.2016)

**Table 6.6:** Status of Ground Water Monitoring Wells

Year	Total No. of Ground Water Monitoring Wells (As on 31.03.2014)				
	DW	PZ	Total	Aquifer wise Piezometers	
				Unconfined	Confined/ Semi confined
2013	26	5	31	0	7

**Source:** Central Ground Water Board, Ministry of Water Resources, Govt. of India  
 (Ground Water Year Book, India 2014-15)  
<http://www.indiaenvironmentportal.org.in/files/file/Ground%20Water%20Year%20Book%202014-15.pdf>  
 (accessed on 13.6.2016)

**Table 6.7:** Plan-wise Financial Expenditure on Major and Medium Irrigation

(Rs. Crores)

Ninth Plan (1997-02)	Tenth Plan (2002-07)	Actual Expenditure (2007-08)	Actual Expenditure (2008-09)	Revised Approved Outlay (2009-10)	Revised Approved Outlay (2010-11)	Actual Expenditure (2011-12)
0.9	0.1	0.1	0.1	0	0	3.05

**Source:** Planning and Progress Directorate, Central Water Commission, Govt. of India  
 (Water and Related Statistics, 2015).  
<http://www.cwc.gov.in/main/downloads/Water%20&%20Related%20Statistics%202015.pdf>  
 (accessed on 08.05.2016)

**Table 6.8:** Financial Expenditure on Flood Management Work

(Rs. Crores)

During IX Plan (1997-02)	Upto IX Plan (1997-02)	During X Plan (2002-07)	Upto X Plan (2002-07)	Actual Expenditure (2007-08)	Actual Expenditure (2008-09)	Revised Approved Outlay (2009-10)	Revised Approved Outlay (2010-11)	Actual Expenditure (2011-12)
0.44	1.40	14.40	15.80	7.08	4.44	0.43	0.68	28.55

**Table 6.9:** List of on-going Projects under Command Area Development and Water Management (CADWM) Programme during the period of XI<sup>th</sup> Plan (2007-08 to 2011-12) (as on March, 2013)

('000 ha)

Project Name	Districts benefitted	Year of Inclusion	CCA	CCA Covered till 31.3.2013	Reported balance of executable CCA
Cluster of 13 Minor Irrigation Projects at Changki Valley	Mokokchung	2011-12	1.08	0.073	1.007

CCA - Cultural Command Area

**Table 6.10:** Central Released under the Command Area Development Programme (CADP)

(Rs. Lakh)

Total up to end of VIII Plan	Up to IX Plan	Up to X Plan	Total XI Plan	During XII Plan			Cumulative Up to 2014-15
				2012-13	2013-14	2014-15	
10.00	164.6	339.2	34.4		0.0		373.6

**Table 6.11:** Damage due to Flood (during, 2013)

Area Affected (Mill. Ha.)	Population Affected (Million)	Damage to Crops		Damage to Houses		Cattle lost Nos.	Human lives lost Nos.	Damage to Public utilities (Rs. Crores)	Total damages to crops, houses & public
		Area (M. Ha.)	Value (Rs. Crores)	Nos.	Value (Rs. Crores)				
0.00	0.08	0.00	1.72	982.00	29.89	2680.0	0.00	1.80	33.41

**Source** (Tables 6.8-6.11): Planning and Progress Directorate, Central Water Commission, Ministry of Water Resource, Govt. of India (CAD wing) (Water and Related Statistics, 2015).  
<http://www.cwc.gov.in/main/downloads/Water%20&%20Related%20Statistics%202015.pdf>  
 (accessed on 08.05.2016)

**Table 6.12:** Installation of Off-grid/Decentralized Renewable Energy Systems/Devices

Year	2010-11	2011-12	2012-13	2013-14	2014-15
Biogas Plants (Nos.)	4153.0	6649.0	7399.0	7602.0	7903.0
Water Pumping Wind Mills (Nos.)	-	-	-	0.0	-
SPV Pumps (Nos.)	3	3	3	3	3
<b>Solar Photovoltaic</b>					
SLS (Nos.)	271.0	271.0	271.0	271.0	271.0
HLS (Nos.)	720.0	868.0	1045.0	1045.0	1045.0
SL (Nos.)	6317.0	6317.0	6766.0	6766.0	6766.0
PP (KWP)	6.0	6.0	144.0	1050.0	1050.0
Aerogen. Hybrid System (KW)	-	-	-	-	20
Solar Cooker (Nos.) #	-	-	-	-	-
Biomass Gasifiers (Nos.)	1480.0	2100.0	2100.0	2100.0	2100.0
Waste to Energy (MW)	-	-	-	-	-
<b>Remote Village</b>					
Villages (Nos.)	11.0	11.0	11.0	11.0	11.0
Hamlets (Nos.)	-	-	-	-	-

#Figures calculated for 2011- 12 onwards in MW unit

Note: SLS = Street Lighting System; HLS = Home Lighting System; SL = Solar Lantern; PP = Power Plants; SPV= Solar Photovoltaic; SHP = Small Hydro Power; MW = Mega Watt; KWP = Kilowatt peak

**Table 6.13:** Installed Capacity of Grid Interactive Renewable Power (in MW)

Power/ Energy	2011	2012	2013	2014	2015
Biomass Power	-	-	-	-	
Waste to Energy	-	-	-	-	
Wind Power	-	-	-	-	
Small Hydro Power	28.67	28.67	28.67	29.67	29.67
Solar Power	-	-	-	0	0
Total	28.67	28.67	28.67	29.67	29.67

**Sources** (Tables 6.12-6.13): Ministry of Statistics and Programme Implementation, Govt. of India (Statistical Yearbook, India 2016).  
[http://mospi.nic.in/Mospi\\_New/upload/SYB2016/index1.html](http://mospi.nic.in/Mospi_New/upload/SYB2016/index1.html) (accessed on 16.05.2016)

**Table 6.14:** Installed Capacity of Power Utilities (Including allocated shares in Joint & Central sector utilities) (as on August, 2016)

Ownership/ sector	Mode-wise Breakup							Grand Total
	Thermal				Nuclear	Hydro (Renewal)	RES (MNRE)	
	Coal	Gas	Diesel	Total				
State	0.00	0.00	0.00	0.00	0.00	0.00	30.67	30.67
Private	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Central	10.70	48.91	0.00	59.61	0.00	53.32	0.00	112.93
<b>Sub-Total</b>	10.70	48.91	0.00	59.61	0.00	53.32	30.67	143.60

**Source:** Central Electricity Authority, Ministry of Power, Govt. of India  
[http://www.cea.nic.in/reports/monthly/installedcapacity/2016/installed\\_capacity-02.pdf](http://www.cea.nic.in/reports/monthly/installedcapacity/2016/installed_capacity-02.pdf) (accessed on 11.08.2016)

**Table 6.15:** Electricity-Installed Capacity, Generation and Consumption  
 [Installed Capacity: Thousand kw); Generation: Gwh]

Year		2008-09	2009-10	2010-11	2011-12	2012-13	2013-14 (P)
Installed Capacity	Hydro	-	0	0	0	0	-
	Steam	-	0	0	0	0	-
	Diesel and Wind	31	30.67	30.67	30.67	31	-
	Gas	-	0	0	0	0	-
	Nuclear	-	0	0	0	0	-
Total		31	30.67	30.67	30.67	31	-
Electricity generated (Gross)	Hydro	-	0	0	0	0	0
	Steam	-	0	0	0	0	0
	Diesel and Wind	97	99.49	80.28	80.316	80	83.08
	Gas	-	0	0	0	0	0
	Nuclear	-	0	0	0	0	0
Total		97	99.49	80.28	80.316	80	83.08
Consumption in Power Station		6	0	0	5.44	2	0
Electricity Generated(Net)		91	99.49	80.28	74.876	78	83.08
Consumption*		192.97	225	288.86	317.49	327.64	394.5
Per capita consumption (Kwh)	Utilities	226.00	242.39	264.81	257.18	268.50	226.00
	Non Utilities	-	-	-	0.00	0.00	-
<b>Total</b>		226.00	242.39	264.81	257.18	268.50	258.96

P: Provisional; (\*) Relates to sales to ultimate consumers.

Note: (1) Installed capacity of jointly owned projects have been shown divided between the partner States as per their theoretical shares; 2. Includes the generation of Small Hydro Projects; 3. Totals may not tally due to rounding off of figures.

**Source:** Central Electricity Authority, Ministry of Power, Ministry of Statistics & Programme Implementation, Govt. of India (Statistical Yearbook India, 2016).

[http://mospi.nic.in/Mospi\\_New/upload/SYB2016/index1.html](http://mospi.nic.in/Mospi_New/upload/SYB2016/index1.html) (accessed on 27.5.2016)

**Table 6.16: Status of Hydropower Potential Development**

(Installed Capacity)

<b>Capacity</b>	<b>as on 31.05.2015</b>	<b>as on 31.01. 2016</b>
Identified Capacity Total (MW)	1574	1574
Above 25 MW	1452	1452
<b>Capacity Developed</b>		
Mega Watts	75	75
Percent	5.17	5.17
<b>Capacity under Construction</b>		
Mega Watts	0.0	0.0
Percent	0.00	0.00
<b>Capacity Development &amp; Under Construction</b>		
Mega Watts	75.0	75.0
Percent	5.17	5.17
<b>Capacity yet to be Developed</b>		
Mega Watts	1377.0	1377.0
Percent	94.83	94.83

Source: Central Electricity Authority, Ministry of Power, Govt. of India.

[http://cea.nic.in/reports/monthly/hydro/2015/hydro\\_potential\\_region-08.pdf](http://cea.nic.in/reports/monthly/hydro/2015/hydro_potential_region-08.pdf) (accessed on 11.06.2016)

**Table 6.17: Electricity Sold to Ultimate Consumers (Utilities only)**

(Gwh)

<b>Electricity Sold</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>	<b>2013-14 (P)</b>
Total sold to ultimate consumers	225.00	288.86	317.49	327.64	394.50
Domestic	208.19	185.99	202.36	220.50	248.00
Commercial	4.85	33.18	37.51	34.65	48.00
Industrial Power at low & medium voltage	1.71	13.96	16.09	13.65	24.00
Industrial Power at high voltage	0.00	0.00	0.00	0.00	0.00
Public lighting	0.69	2.13	7.84	5.25	6.00
Traction	0.00	0.00	0.00	0.00	0.00
Agriculture	0.00	0.00	0.04	0.04	0.05
Public water works & sewage pumping	3.86	1.45	2.23	3.15	3.45
Miscellaneous	5.70	52.15	51.42	50.40	65.00

P = Provisional

Sources: Ministry of Statistics and Programme Implementation, Govt. of India (Statistical Yearbook India, 2015).

[http://mospi.nic.in/Mospi\\_New/upload/SYB2015/index1.html](http://mospi.nic.in/Mospi_New/upload/SYB2015/index1.html) (accessed on 06.06.2016)



**Table 6.18:** Towns and Villages Electrified

(in Nos.)

Year	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14 (P)
<b>Towns</b>							
Number of Towns (2011 Census)	9	9	9	9	9	9	9
Electrified	9	9	9	9	9	9	9
Percentage	100	100	100	100	100	100	100
<b>Villages</b>							
Number of Villages (2011 Census)	1278	1278	1278	1278	1278	1278	1400
Electrified	823	823	823	866	896	896	1261
Percentage	64.4	64.4	64.4	67.8	70.1	70.1	90.1

P = Provisional

**Sources:** Ministry of Statistics and Programme Implementation, Govt. of India (Statistical Year Book, India 2016).  
[http://mospi.nic.in/Mospi\\_New/upload/SYB2016/index1.html](http://mospi.nic.in/Mospi_New/upload/SYB2016/index1.html) (accessed on 06.06.2016)

**Table 6.19:** Ground Water Resources Availability, Utilization and Stage of Development (as on 2011)

Annual Replenishable Ground Water Resource				Natural Discharge during non-monsoon season	Net Annual Ground Water Availability	Annual Ground Water Draft		Projected demand for Domestic and Industrial uses upto 2025	Ground Water Availability for future irrigate on use	Stage of Ground Water Development (%)
Monsoon Season	Non-monsoon Season		Total			Irrigation	Domestic and industrial uses			
Recharge from rainfall other sources	Recharge from rainfall	Recharge from other sources	Total							
0.40	Neg.	0.21	Neg.	0.62	0.55	0.00	0.03	0.03	0.04	6.13

(in bcm)

**Table 6.20:** Decadal Water Level Fluctuation with Mean [Pre Monsoon (2003 to 2012) and Pre Monsoon 2013]

No. of Wells Analysed	Range in m			Rise						Fall			Rise		Fall		
	Rise		Fall	0-2 m		2-4 m		>4 m		0-2 m		2-4 m		>4 m			
	Min	Max	Min	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
12	0.05	3.69	0.13	5	41.67	1	8.33	0	0.00	5	41.67	0	0.00	1	8.33	6	50.00

**Source** (Tables 6.19-6.20): Central Ground Water Board, Ministry of Water Resource, Govt. of India (Ground Water Yearbook, 2013-14, 2014-15). <http://www.indiaenvironmentportal.org.in/files/file/Ground%20Water%20Year%20Book%202014-15.pdf> (accessed on 08.06.2016)